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(54) **CODER FOR DISSOLVE PICTURE**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a coder that conducts no motion retrieval processing or conducts moving picture compression coding processing at a high-speed for a motion retrieval processing with a small arithmetic amount in the case of receiving a compression coded moving picture and generating a compression coded moving picture whose dissolve is realized for a transition period.

SOLUTION: Motion compensation information decided by two input pictures is used for motion compensation information for re-coding of a synthesis picture for a dissolve period. Motion compensation information used for a received picture with a high input ratio and motion compensation information for a received picture with a value highly reflecting a feature quantity of the received picture in addition to the input ratio are used for determination of the motion compensation information. Furthermore, a coding system identical to that for a picture to reference motion compensation information is adopted for each synthesized picture within the dissolve period and

timing to switch the picture to reference the motion compensation information is shifted depending on number of adjacent B frames to suppress deterioration in the coding efficiency and to reduce the entire arithmetic quantity.

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